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## ABSTRACT

The present invention provides a propylene/1-butene random copolymer (PBR) having excellent flexibility, impact resistance, heat resistance and low-temperature heat-seal properties, a polypropylene composition contains the copolymer, a sheet, film or stretched film comprising the composition and a composite film having a layer of the composition.

The propylene/1-butene random copolymer contains 60 to 90 mol% of propylene units and 10 to 40 mol% of 1-butene units and has a triad isotacticity of not less than 85% and not more than 97.5%, a molecular weight distribution (Mw/Mn) of from 1 to 3, an intrinsic viscosity of from 0.1 to 12 dl/g, a melting point (Tm) of from 40 to 120°C, and satisfies the following relation

 $146 \ \text{exp} \ (-0.022\text{M}) \ \ge \ \text{Tm} \ \ge \ 125 \ \text{exp} \ (-0.032\text{M})$  wherein Tm represents a melting point and M (mol%) represents a content of 1-butene constituent units.

The invention, further, provides a transition metal compound useful as an olefin polymerization catalyst and an olefin polymerization catalyst containing the transition metal compound. The transition metal compound is represented by the following formula (2a):

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$$R^{14}$$
 $R^{14}$ 
 $R^{13}$ 
 $R^{12}$ 
 $R^{10}$ 
 $R^{9}$ 
 $R^{8}$ 
 $R^{7}$ 
 $R^{10}$ 
 $R^{10}$ 

wherein each of R<sup>1</sup> and R<sup>3</sup> is hydrogen, R<sup>2</sup> and R<sup>4</sup> are selected from a hydrocarbon group and silicon-containing group, R<sup>5</sup> to R<sup>13</sup> are selected from hydrogen, a hydrocarbon group and silicon-containing group, and adjacent substituent groups R<sup>5</sup> to R<sup>12</sup> may be linked to form a ring. R<sup>14</sup> is an aryl group, and R<sup>13</sup> and R<sup>14</sup> may be linked to form a ring. M is a Group 4 transition metal, Y is a carbon atom, Q is halogen, etc, and j is an integer of 1 to 4.